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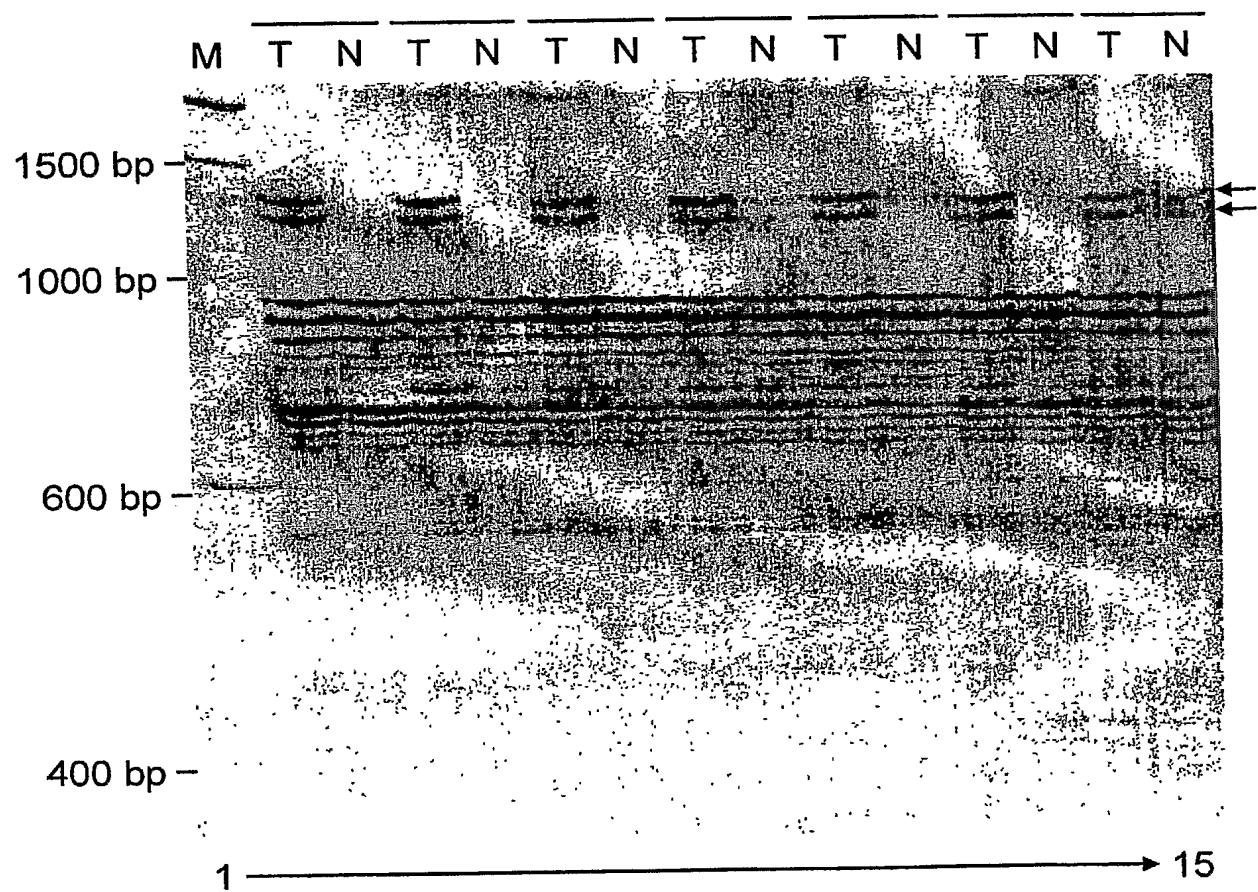


FIG.1

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FISH

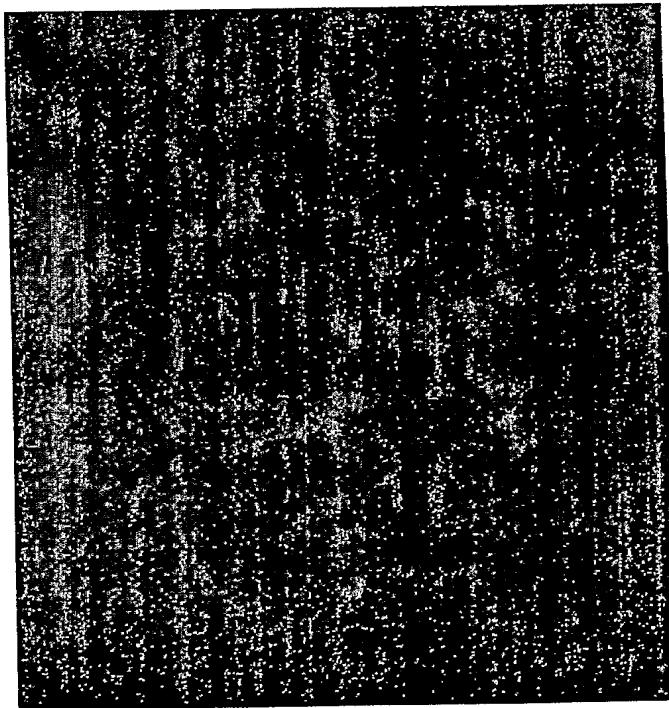


FIG.2A

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## IDIograms

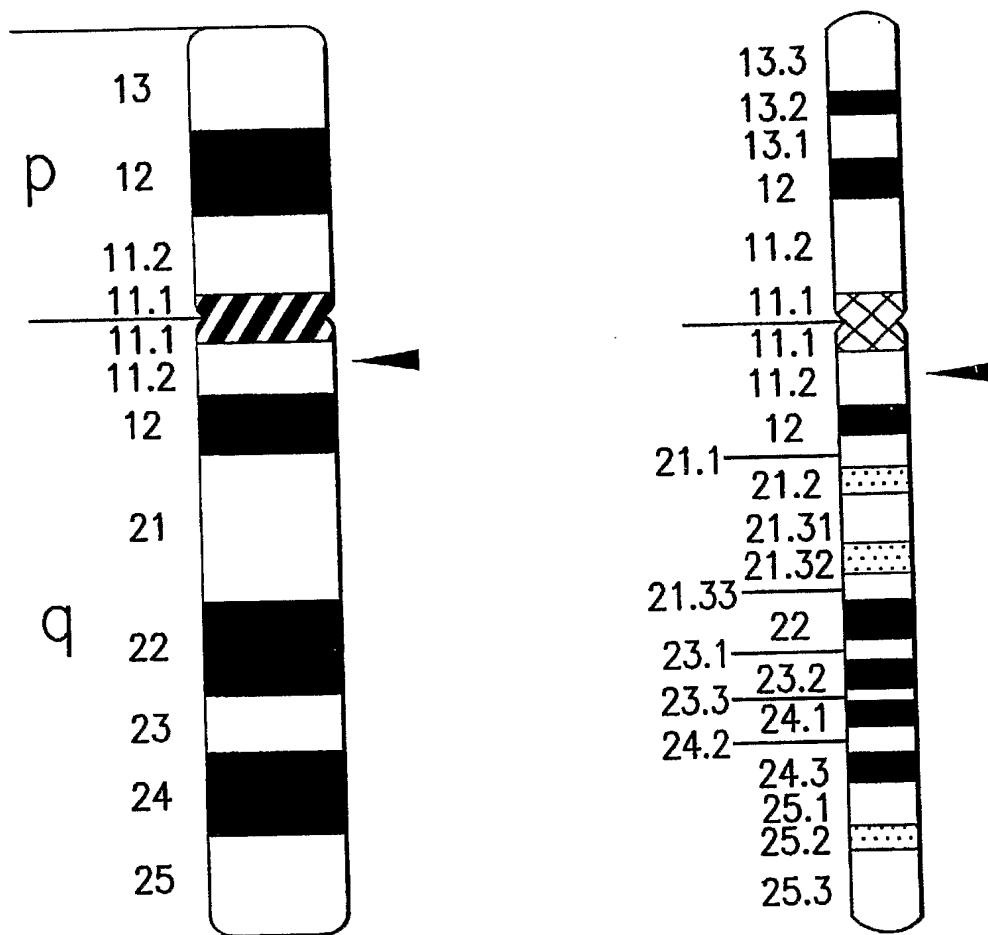


FIG.2B

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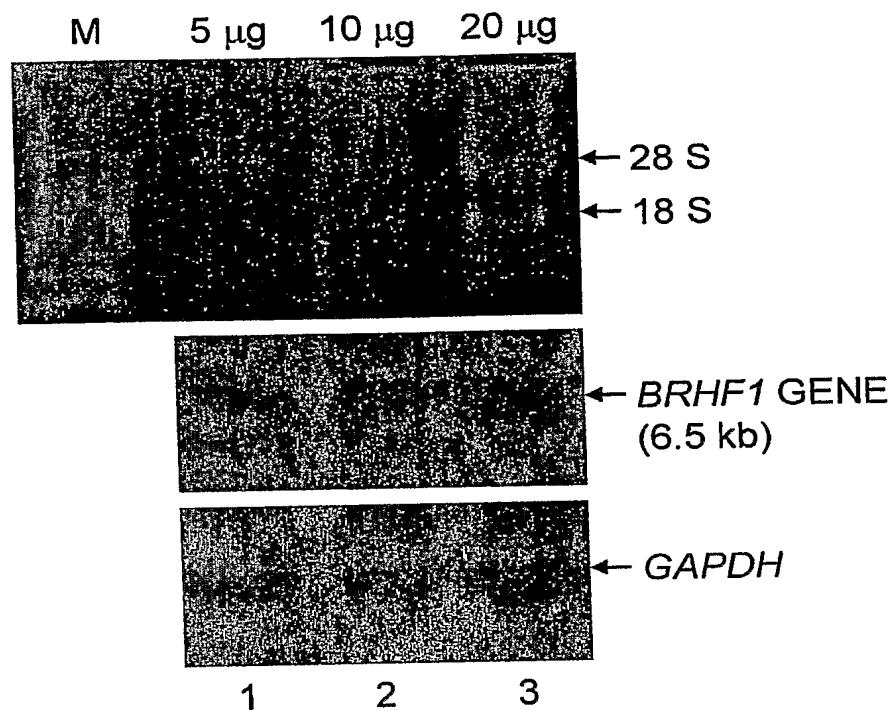


FIG.3A

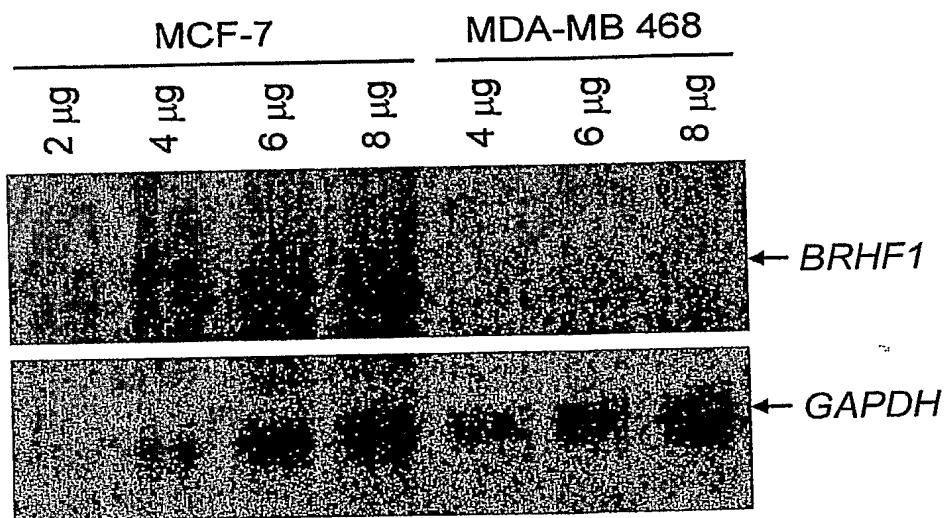


FIG.3B

SUBSTITUTE SHEET (RULE 26)

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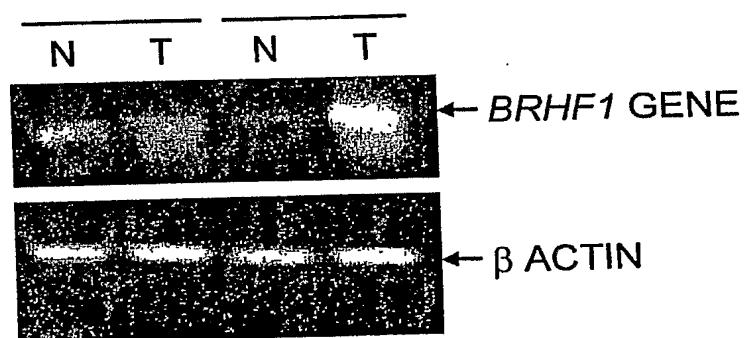


FIG.4

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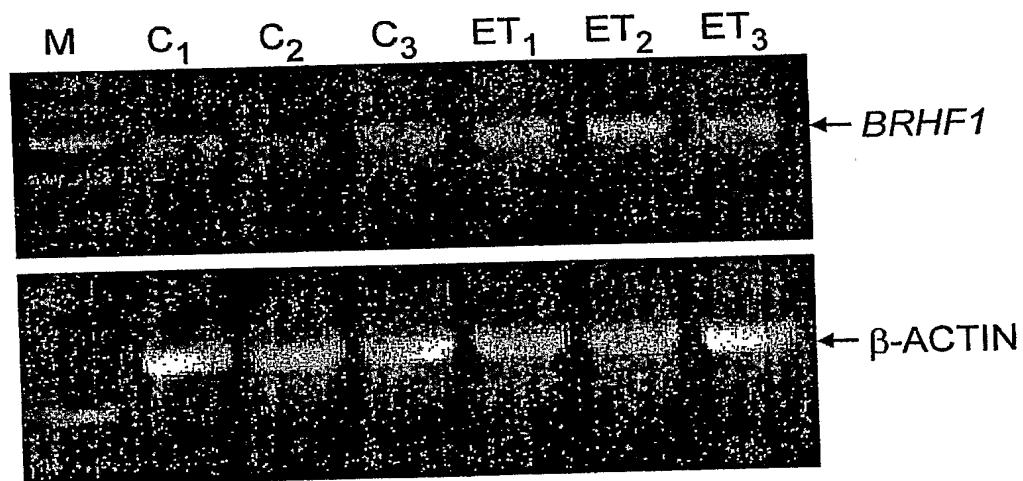


FIG.5

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| M   | T   | G   | S   | N   | S   | H   | I   | T   | I   | L   | T   | L   | N   | I   | N   | G   | L   |
| ATG | ACA | GGA | TCA | AAT | TCA | CAC | ATA | ACA | ATA | TTA | ACT | TTA | AAT | ATA | AAT | GGA | CTA |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 18  |
| N   | S   | A   | I   | K   | R   | H   | R   | L   | A   | S   | W   | I   | K   | S   | Q   | D   | P   |
| AAT | TCT | GCA | ATT | AAA | AGA | CAC | AGA | CTG | GCA | AGT | TGG | ATA | AAG | AGT | CAA | GAC | CCA |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 54  |
| S   | V   | C   | C   | I   | Q   | E   | T   | H   | L   | T   | C   | R   | D   | T   | H   | R   | L   |
| TCA | GTG | TGC | TGT | ATT | CAG | GAA | ACC | CAT | CTC | ACG | TGC | AGA | GAC | ACA | CAT | AGG | CTC |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 54  |
| K   | I   | K   | G   | W   | R   | K   | I   | Y   | Q   | A   | N   | G   | K   | Q   | K   | K   | A   |
| AAA | ATA | AAA | GGA | TGG | AGG | AAG | ATC | TAC | CAA | GCC | AAT | GGA | AAA | CAA | AAA | AAG | GCA |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 72  |
| G   | V   | A   | I   | L   | V   | S   | D   | K   | T   | D   | F   | K   | P   | T   | K   | I   | K   |
| GGG | GTT | GCA | ATC | CTA | GTC | TCT | GAT | AAA | ACA | GAC | TTT | AAA | CCA | ACA | AAG | ATC | AAA |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 90  |
| R   | D   | K   | E   | G   | H   | Y   | I   | M   | V   | K   | G   | S   | I   | Q   | Q   | E   | E   |
| AGA | GAC | AAA | GAA | GGC | CAT | TAC | ATA | ATG | GTA | AAG | GGA | TCA | ATT | CAA | CAG | GAG | GAG |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 108 |
| L   | T   | I   | L   | N   | I   | Y   | A   | P   | N   | T   | G   | A   | P   | R   | F   | I   | K   |
| CTA | ACT | ATC | CTA | AAT | ATT | TAT | GCA | CCC | AAT | ACA | GGA | GCA | CCC | AGA | TTC | ATA | AAG |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 126 |
| Q   | V   | L   | S   | D   | L   | Q   | R   | D   | L   | D   | S   | H   | T   | L   | I   | M   | G   |
| CAA | GTC | CTC | AGT | GAC | CTA | CAA | AGA | GAC | TTA | GAC | TCC | CAC | ACA | TTA | ATG | GGA | GGA |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 144 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 432 |

**FIG.6A**

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |            |              |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|--------------|-----|
| D   | F   | N   | T   | P   | L   | S   | T   | L   | D   | R   | S   | T   | R   | Q   | K   | V          | N            | 162 |
| GAC | TTT | AAC | ACC | CCA | CTG | TCA | ACA | TTA | GAC | AGA | TCA | ACG | AGA | CAG | AAA | GTC        | AAC          | 486 |
| K   | D   | T   | Q   | E   | L   | N   | S   | A   | L   | H   | Q   | A   | D   | L   | I   | D          | I            | 180 |
| AAG | GAT | ACC | CAG | GAA | TTG | AAC | TCA | GCT | CTG | CAC | CAA | GCA | GAC | CTA | ATA | GA         | <u>C</u> ATC | 540 |
| Y   | R   | T   | L   | H   | P   | K   | S   | T   | E   | Y   | T   | F   | F   | S   | A   | P          | H            | 198 |
| TAC | AGA | ACT | CTC | CAC | CCC | AAA | TCA | ACA | GAA | TAT | ACA | TTT | TTT | TCA | GCA | CCA        | CAC          | 594 |
| H   | T   | Y   | S   | K   | I   | D   | H   | I   | V   | G   | S   | K   | A   | L   | L   | S          | K            | 216 |
| CAC | ACC | TAT | TCC | AAA | ATT | GAC | CAC | ATA | GTT | GGG | AGT | AAA | GCT | CTC | CTC | AGC        | AAA          | 648 |
| C   | K   | R   | T   | E   | I   | I   | T   | N   | Y   | L   | S   | D   | H   | S   | A   | I          | K            | 234 |
| TGT | AAA | AGA | ACA | GAA | ATT | ATA | ACA | AAC | TAT | CTC | TCA | GAC | CAC | AGT | GCA | ATC        | <u>AAA</u>   | 702 |
| L   | E   | L   | R   | I   | K   | N   | L   | T   | Q   | S   | R   | S   | T   | T   | W   | K          | L            | 252 |
| CTA | GAA | CTC | AGG | ATT | AAG | AAT | CTC | ACT | CAA | AGC | CGC | TCA | ACT | ACA | TGG | <u>AAA</u> | CTG          | 756 |
| N   | N   | L   | L   | N   | D   | Y   | W   | V   | H   | N   | E   | M   | K   | A   | E   | I          | 270          |     |
| AAC | AAC | CTG | CTC | CTG | AAT | GAC | TAC | TGG | GTA | CAT | AAC | GAA | ATG | AAG | GCA | GAA        | ATA          | 810 |
| K   | M   | F   | F   | E   | T   | N   | E   | N   | K   | D   | T   | T   | Y   | Q   | N   | L          | W            | 288 |
| AAG | ATG | TTC | TTT | GAA | ACC | AAC | GAG | AAC | AAA | GAC | ACC | ACA | TAC | CAG | AAT | CTC        | TGG          | 864 |
| D   | A   | F   | K   | A   | V   | C   | R   | G   | K   | F   | I   | A   | L   | N   | A   | Y          | Q            | 306 |
| GAC | GCA | TTC | AAA | GCA | GTG | TGT | AGA | GGG | AAA | TTT | ATA | GCA | CIA | AAT | GCC | TAC        | CAG          | 918 |

**FIG. 6B**

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |      |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|------|
| R   | K   | Q   | E   | R   | S   | K   | I   | D   | T   | L   | T   | S   | Q   | L   | K   | E   | L   |  | 324  |
| AGA | AAG | CAG | GAA | AGA | TCC | AAA | ATT | GAC | ACC | CTA | ACA | TCA | CAA | TTA | AAA | GAA | CTA |  | 972  |
| E   | K   | Q   | E   | Q   | T   | H   | S   | K   | A   | S   | R   | R   | Q   | E   | I   | T   | K   |  | 342  |
| GAA | AAG | CAA | GAG | CAA | ACA | CAT | TCA | AAA | GCT | AGC | AGA | AGG | CAA | GAA | ATA | ACT | AAA |  | 1026 |
| I   | R   | A   | E   | L   | K   | E   | I   | E   | T   | Q   | K   | T   | L   | Q   | K   | I   | N   |  | 360  |
| ATC | AGA | GCA | GAA | CTG | AAG | GAA | ATA | GAG | ACA | CAA | AAA | ACC | CTT | CAA | AAA | ATC | AAI |  | 1080 |
| E   | S   | R   | S   | W   | F   | F   | E   | R   | I   | N   | K   | I   | D   | R   | P   | L   | A   |  | 378  |
| GAA | TCC | AGG | AGC | TGG | TTT | TTT | GAA | AGG | ATC | AAC | AAA | ATT | GAT | AGA | CCG | CTA | GCA |  | 1134 |
| R   | L   | I   | K   | K   | K   | R   | E   | K   | N   | Q   | I   | D   | T   | I   | K   | N   | D   |  | 396  |
| AGA | CTA | ATA | AAG | AAA | AAA | AGA | GAG | AAG | AAT | CAA | ATA | GAC | ACA | ATA | AAA | AAT | GAT |  | 1188 |
| K   | G   | D   | I   | T   | T   | D   | P   | T   | E   | I   | Q   | T   | T   | I   | R   | E   | Y   |  | 414  |
| AAA | GGG | GAT | ATC | ACC | GAT | CCC | ACA | GAA | ATA | CAA | ACT | ACC | ATC | AGA | GAA | TAC |     |  | 1242 |
| Y   | K   | H   | L   | Y   | A   | N   | K   | L   | E   | N   | L   | E   | E   | M   | D   | T   | F   |  | 432  |
| TAC | AAA | CAC | CTC | TAC | GCA | AAT | AAA | CTA | GAA | AAT | CTG | GAA | GAA | ATG | GAT | ACA | TTC |  | 1296 |
| L   | D   | T   | Y   | T   | L   | P   | R   | L   | N   | Q   | E   | E   | V   | E   | S   | L   | N   |  | 450  |
| CTC | GAC | ACA | TAC | TAC | CTC | CCA | AGA | CTA | AAC | CAG | GAA | GAA | GTT | TCT | CTG | AAT |     |  | 1350 |
| R   | P   | I   | T   | G   | S   | E   | I   | V   | A   | I   | I   | N   | S   | L   | P   | T   | K   |  | 468  |
| CGA | CCA | ATA | ACA | GGC | TCT | GAA | ATT | GTG | GCA | ATA | ATC | AAT | AGT | TTA | CCA | ACC | AAA |  | 1404 |

**FIG. 6C**

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|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|
| K  | S | P | G | P | D | G | F | T | A | E | F | Y | Q | R | Y | K | E | 486  |
| <u>AAG AGT CCA GGA CCA GAT GGA TTC ACA GCC GAA TCC TAC CAG AGG TAC AAG GAG</u> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |
| E  | L | V | P | F | L | L | K | L | F | Q | S | I | E | K | E | G | I | 1458 |
| <u>GAA CTG GTA CCA TTC CTT CTG AAA CTA TTG CAA TCA ATA GAA AAA GAG GGA ATC</u> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |
| L  | P | N | S | F | Y | E | T | S | I | I | L | I | P | K | P | G | R | 504  |
| <u>CTC CCT AAC TCA TTT TAT GAG ACC AGC ATC ATT CTG ATA CCA AAG CCG GGC AGA</u> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |
| D  | T | T | K | K | E | N | F | R | P | I | S | L | M | N | I | D | A | 522  |
| <u>GAC ACA ACC AAA AAA GAG AAT TTT AGA CCA ATA TCC TTG ATG AAC ATT GAT GCA</u> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |
| K  | I | L | N | K | I | L | A | N | R | I | Q | Q | H | I | K | K | L | 540  |
| <u>AAA ATC CTC ATT AAA ATA CTG GCA AAC CGA ATC CAG CAC ATC AAA AAG CTI</u>     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |
| I  | H | H | D | Q | V | G | F | F | I | P | G | M | Q | G | W | F | N | 558  |
| <u>ATC CAC CAT GAT CAA GTG GGC TTC ATC CCT GGG ATG CAA GGC TGG TTC AAT ATA</u> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |
| R  | K | S | I | N | V | I | Q | H | I | N | R | A | K | D | K | N | H | 576  |
| <u>CGC AAA TCA ATA AAT GTA ATC CAG CAT ATA AAC AGA GCC AAA GAC AAC CAC</u>     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |
| M  | I | I | S | I | D | A | E | K | A | F | D | K | I | Q | Q | P | F | 594  |
| <u>ATG ATT ATC TCA ATA GAT GCA GAA AAA GCC TTT GAC AAA ATT CAA CAA CCC TTC</u> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |
| M  | L | K | T | L | N | K | L | G | I | D | G | T | Y | F | K | I | I | 612  |
| <u>ATG CTA AAA ACT CTC AAT AAA TTA GGT ATT GAT GGG ACG TAT TTC AAA ATA ATA</u> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |
| <u>ATA</u>   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |

FIG. 6D

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| R   | A   | I   | Y   | D   | K   | P   | T   | A   | N   | I   | I   | L   | N   | G   | Q   | K   | L   | 648  |
| AGA | GCT | ATC | TAT | GAC | AAA | CCC | ACA | GCC | AAT | ATC | ATA | CTG | AAT | GGA | CAA | AAA | CTG | 1944 |
| E   | A   | F   | P   | L   | K   | T   | G   | T   | R   | Q   | G   | C   | P   | L   | S   | P   | L   | 666  |
| GAA | GCA | TTC | CCT | TTG | AAA | ACT | GGC | ACA | AGA | CAG | GGA | TGC | CCT | CTC | TCA | CCG | CTC | 1998 |
| L   | F   | N   | I   | V   | L   | E   | V   | L   | A   | R   | A   | I   | R   | Q   | E   | K   | E   | 684  |
| CTA | TTC | AAC | ATA | GTG | TTG | GAA | GTT | CTG | GCC | AGG | GCA | ATC | AGG | CAG | GAG | AAG | GAA | 2052 |
| I   | K   | G   | I   | Q   | L   | G   | K   | E   | E   | V   | K   | L   | S   | L   | F   | A   | D   | 702  |
| ATA | AAG | GGT | ATT | CAA | TTA | GGA | AAA | GAG | GAA | GTC | AAA | TTC | TCC | CTG | TTT | GCA | GAC | 2106 |
| D   | M   | I   | V   | Y   | L   | E   | N   | P   | I   | V   | S   | A   | Q   | N   | L   | L   | K   | 720  |
| GAC | ATG | ATT | GGT | TAT | CTA | GAA | AAC | CCC | ATC | GTC | TCA | GCC | CAA | AAT | CTC | CTT | AAG | 2160 |
| L   | I   | S   | N   | F   | S   | K   | V   | S   | G   | Y   | K   | I   | N   | V   | Q   | K   | S   | 738  |
| CTG | ATA | AGC | AAC | TTC | AGC | AAA | GTC | TCA | GGA | TAC | AAA | ATC | AAT | GTA | CAA | AAA | TCA | 2214 |
| Q   | A   | F   | L   | Y   | T   | N   | N   | R   | Q   | T   | E   | S   | Q   | I   | M   | S   | E   | 756  |
| CAA | GCA | TTC | TTA | TAC | ACC | AAC | AAC | AGA | CAA | ACA | GAG | AGC | CAA | ATC | ATG | AGT | GAA | 2268 |
| L   | P   | F   | T   | I   | A   | S   | K   | R   | I   | K   | Y   | L   | G   | I   | Q   | L   | T   | 774  |
| CTC | CCA | TTC | ACA | ATT | GCT | TCA | AAG | AGA | ATA | AAA | TAC | CTA | GGA | ATC | CAA | CTT | ACA | 2322 |
| R   | D   | V   | K   | D   | L   | F   | K   | E   | N   | Y   | K   | P   | L   | L   | K   | E   | I   | 792  |
| AGG | GAT | GTG | AAG | GAC | CTC | TTC | AAG | GAG | AAC | TAC | AAA | CCA | CTG | CTC | AAG | GAA | ATA | 2376 |

**FIG. 6E**

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| K   | E   | E   | T   | N   | K   | W   | K   | N   | I   | P   | C   | S   | W   | V   | G   | R   | I   | 810  |      |
| AAA | GAG | GAG | ACA | AAC | AAA | TGG | AAG | AAC | ATT | CCA | TGC | TCA | TGG | GTA | GGA | AGA | ATC | 2430 |      |
| N   | I   | V   | K   | M   | A   | I   | L   | P   | K   | V   | I   | Y   | R   | F   | N   | A   | I   | 828  |      |
| AAT | ATC | GTG | AAA | ATG | GCC | ATA | CTG | CCC | AAG | GTA | ATT | TAC | AGA | TTC | AAT | GCC | ATC | 2484 |      |
| P   | I   | K   | L   | P   | M   | T   | F   | F   | T   | E   | L   | E   | K   | T   | T   | L   | K   | 846  |      |
| CCC | ATC | AAG | CTA | CCA | ATG | ACT | TTC | TTC | ACA | GAA | TTG | GAA | AAA | ACT | ACT | TTA | AAG | 2538 |      |
| F   | I   | W   | N   | Q   | K   | R   | A   | R   | I   | A   | K   | S   | I   | L   | S   | Q   | K   | 864  |      |
| TTC | ATA | TGG | AAC | CAA | AAA | AGA | GCC | CGC | ATT | GCC | AAG | TCA | ATC | CTA | AGC | CAA | AAG | 2592 |      |
| N   | K   | A   | G   | G   | I   | T   | L   | P   | D   | F   | K   | L   | Y   | Y   | K   | A   | T   | 882  |      |
| AAC | AAA | GCT | GGA | GGC | ATC | ACA | CTA | CCT | GAC | TTC | AAA | CTA | TAC | TAC | AAG | GCT | ACA | 2646 |      |
| V   | T   | K   | T   | A   | W   | Y   | W   | Y   | Q   | N   | R   | D   | I   | D   | Q   | W   | N   | 900  |      |
| GTA | ACC | AAA | ACA | GCA | TGG | TAC | TGG | TAC | CAA | AAC | AGA | GAT | ATA | GAT | CAA | TGG | AAC | 2700 |      |
| R   | T   | E   | P   | S   | E   | I   | M   | P   | H   | I   | Y   | N   | Y   | L   | I   | F   | D   | 918  |      |
| AGA | ACA | GAG | CCC | TCA | GAA | ATA | ATG | CCG | CAT | ATC | TAC | AAC | TAT | CTG | ATC | TTT | GAC | 2754 |      |
| K   | P   | E   | K   | N   | K   | Q   | W   | G   | K   | D   | S   | L   | F   | N   | K   | W   | C   | 936  |      |
| AAA | CCT | GAG | AAA | AAC | AAG | CAA | TGG | GGA | AAG | GAT | TCC | CTG | TTT | AAT | AAA | TGG | TGC | 2808 |      |
| W   | E   | N   | W   | W   | L   | A   | I   | C   | R   | K   | L   | K   | D   | P   | F   | L   | T   | 954  |      |
| TGG | GAA | AAC | TGG | CTG | CTA | GCC | ATA | TGT | AGA | AAG | CTG | AAA | CTG | GAT | CCC | TTC | CTT | ACA  | 2862 |

**FIG. 6F**

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| P   | Y   | T   | K   | I   | N   | S   | R   | W   | I   | K   | D   | L   | N   | V   | K   | P   | K    | 972  |
| CCT | TAT | ACA | AAA | ATC | AAT | TCA | AGA | TGG | ATT | AAA | GAT | TTA | AAC | GTT | AAA | CCT | AAA  | 2916 |
| T   | I   | K   | T   | L   | E   | E   | N   | L   | G   | I   | T   | I   | Q   | D   | I   | G   | V    | 990  |
| ACC | ATA | AAA | ACC | CTA | GAA | GAA | AAC | CTA | GGC | ATT | ACC | CAG | GAC | ATA | GGC | GTC | GTC  | 2970 |
| G   | K   | D   | F   | M   | S   | K   | T   | P   | K   | A   | M   | A   | T   | K   | D   | K   | I    | 1008 |
| GGC | AAG | GAC | TTC | ATG | TCC | AAA | ACA | CCA | AAA | GCA | ATG | GCA | ACA | AAA | GAC | AAA | ATT  | 3024 |
| D   | K   | W   | D   | L   | I   | K   | L   | K   | S   | F   | C   | T   | A   | K   | E   | T   | T    | 1026 |
| GAC | AAA | TGG | GAT | CTA | ATT | AAA | CTA | AAG | AGC | TTC | TGC | ACA | GCA | AAA | GAA | ACT | ACC  | 3078 |
| I   | R   | V   | N   | R   | Q   | P   | T   | T   | W   | E   | K   | I   | F   | A   | T   | Y   | S    | 1044 |
| ATC | AGA | GTG | AAC | AGG | CAA | CCT | ACA | ACA | TGG | GAG | AAA | ATT | TTT | GCA | ACC | TAC | TCA  | 3132 |
| S   | D   | K   | G   | L   | I   | S   | R   | I   | Y   | N   | E   | L   | K   | Q   | I   | Y   | K    | 1062 |
| TCT | GAC | AAA | GGG | CTA | ATA | TCC | AGA | ATC | TAC | AAT | GAA | CTC | AAA | CAA | ATT | TAC | AAG  | 3186 |
| K   | K   | T   | N   | N   | P   | I   | K   | K   | W   | A   | K   | D   | M   | N   | R   | H   | F    | 1080 |
| AAA | AAA | ACA | AAC | CCC | ATC | AAA | AAG | TGG | GCG | AAG | GAC | ATG | AAC | AGA | CAC | TTC | 3240 |      |
| S   | K   | E   | D   | I   | Y   | A   | A   | K   | K   | H   | M   | K   | K   | C   | S   | S   | 1098 |      |
| TCA | AAA | GAA | GAC | ATT | TAT | GCA | GCC | AAA | AAA | CAC | ATG | AAG | AAA | TGC | TCA | TCA | TCA  | 3294 |
| L   | A   | I   | R   | E   | M   | Q   | I   | K   | T   | T   | M   | R   | Y   | H   | L   | T   | P    | 1116 |
| CTG | GCC | ATC | AGA | GAA | ATG | CAA | ATC | AAA | ACC | ACT | ATG | AGA | TAT | CAT | CTC | ACA | CCA  | 3348 |

**FIG. 6G**

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|     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |         |      |      |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|---------|------|------|
| V   | R   | M   | A   | I   | I   | K   | S   | G   | N    | N   | R   | C   | W   | R   | G   | C       | 1134 |      |
| GTT | AGA | ATG | GCA | ATC | ATT | AAA | AAG | TCA | GGAA | AAC | AAC | AGG | TGC | TGG | AGA | GGATGC  | 3402 |      |
| G   | E   | I   | G   | T   | L   | L   | H   | C   | W    | W   | D   | C   | K   | L   | V   | Q       | P    | 1152 |
| GGA | GAA | ATA | GGA | ACA | CTT | TTA | CAC | TGT | TGG  | TGG | GAC | TGT | AAA | CTA | GAA | CTAACCA | 3456 |      |
| L   | W   | K   | S   | V   | W   | R   | F   | L   | R    | D   | L   | E   | L   | E   | I   | P       | F    | 1170 |
| TTG | TGG | AAG | TCA | GTG | TGG | CGA | TTC | CTC | AGG  | GAT | CTA | GAA | CTA | GAA | ATA | CCATT   | 3510 |      |
| D   | P   | A   | I   | P   | L   | L   | G   | I   | Y    | P   | N   | E   | Y   | K   | S   | C       | C    | 1188 |
| GAC | CCA | GCC | ATC | CCA | TTA | CTG | GGT | ATA | TAC  | CCA | AAT | GAG | TAT | AAA | TCA | TGC     | TGC  | 3564 |
| Y   | K   | D   | T   | C   | T   | R   | M   | F   | I    | A   | A   | L   | F   | T   | I   | A       | K    | 1206 |
| TAT | AAA | GAC | ACA | TGC | ACA | CGT | ATG | TTT | ATT  | GCG | GCA | CTA | TTC | ACA | ATA | GCA     | AAG  | 3618 |
| T   | W   | N   | Q   | P   | K   | C   | P   | T   | M    | I   | D   | W   | I   | K   | K   | M       | W    | 1224 |
| ACT | TGG | AAC | CAA | CCC | AAA | TGT | CCA | ACA | ATG  | ATA | GAC | TGG | ATT | AAG | AAA | ATG     | TGG  | 3672 |
| H   | I   | Y   | T   | M   | E   | Y   | Y   | A   | A    | I   | K   | N   | D   | E   | F   | I       | S    | 1242 |
| CAC | ATA | TAC | ACC | ATG | GAA | TAC | TAT | GCA | GCC  | ATA | AAA | AAT | GAT | GAG | TTC | ATA     | TCC  | 3726 |
| F   | V   | G   | T   | W   | M   | K   | L   | E   | T    | I   | I   | L   | S   | K   | L   | S       | Q    | 1260 |
| TTT | GTA | GGG | ACA | TGG | ATG | AAA | TTG | GAA | ACC  | ATC | ATT | CTC | AGT | AAA | CTA | TCG     | CAA  | 3780 |
| E   | Q   | K   | T   | K   | H   | R   | I   | F   | S    | L   | I   | G   | G   | N   | *   |         | 1276 |      |
| GAA | CAA | AAA | ACC | AAA | CAC | CGC | ATA | TTC | TCA  | CTC | ATA | GGT | GGG | AAT | TGA |         | 3828 |      |

**FIG.6H**